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NOTICE OF ALLOWANCE AND FEE(S) DUE

22885 7590 09/25/2008
MCKEE, VOORHEES & SEASE, P.L.C.
801 GRAND AVENUE

80I GRAND AVENUE SUITE 3200 DES MOINES, IA 50309-2721 EXAMINER

CUTLIFF, YATE KAI RENE

ART UNIT PAPER NUMBER

1621 DATE MAILED: 09/25/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,336	06/20/2006	Wei Du	P07314US00	6731

TITLE OF INVENTION: METHOD FOR SYNTHESIZING BIODIESEL FROM RENEWABLE OILS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/26/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NO THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

maintenance fee notifica	tions.	ng the Patent, advance of nerwise in Block 1, by (
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of uddress)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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DES MOINES,	IA 50309-2721							(Depositor's r	ame)
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CUTLIFF, YA		1621	554-169000						
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"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2 registered patent attorneys or agents. If no name is 3				_		
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or	type	:)				_
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4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (P	Pleas	e first reapply ar	y prev	lously paid issue fee	hown above)	
Issue Fee			A check is enclosed						
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5. Change in Entity Sta	tus (from status indicate is SMALL ENTITY stati		☐ b. Applicant is no I	long	er claiming SMAI	L.EN	FITY status Sec 37 CF	R 1 27(a)(2)	
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interest as shown by the	records of the United Sta	ites Patent and Trademark	Office.						_
Authorized Signature					Date				
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This collection of inform	nation is required by 37 C	FR 1.311. The informati	on is required to obtain of	or re	tain a benefit by t	he pub	lic which is to file (and	by the USPTO to pro	cess)
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10/549,336	7549,336 06/20/2006 Wei Du		P07314US00	6731	
22885 75	90 09/25/2008		EXAM	UNER	
MCKEE, VOORHEES & SEASE, P.L.C.			CUTLIFF, YATE KAI RENE		
801 GRAND AVENUE			ART UNIT	PAPER NUMBER	
SUITE 3200 DES MOINES, IA 50309-2721			1621 DATE MAILED: 09/25/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 221 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 221 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)			
10/549,336	DU ET AL.			
Examiner	Art Unit			
VATE' K CUTUEE	1621			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable. PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to June 23, 2008.
- 2. The allowed claim(s) is/are 1-8 and 10.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the: a) 🔯 All
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. \(\overline{\text{Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other

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Application/Control Number: 10/549,336

Art Unit: 1621

EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Edmund J. Sease on September 22, 2008.

The application has been amended as follows:

IN THE SPECIFICATION:

Paragraph [0009], line 3, delete "Novozym" and insert <u>Novozym®</u> before "435"; and delete "Lipozyme" and insert Lipozyme® before "RM".

Paragraph [0016], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0017], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0018], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0019], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0020], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0021], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0022], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0023], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0024], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0025], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0026], line 7, delete "Novozym" and insert Novozym® before "435".

Application/Control Number: 10/549,336

Art Unit: 1621

Paragraph [0027], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0028], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0029], line 6, delete "Novozym" and insert Novozym® before "435".

Paragraph [0030], line 7, delete "Lipozyme" and insert Lipozyme® before "RM".

Paragraph [0031], line 7, delete "Lipozyme" and insert Lipozyme® before "RM".

Paragraph [0032], line 7, delete "Lipozyme" and insert Lipozyme® before "RM".

Paragraph [0033], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0034], line 7, delete "Novozym" and insert Novozym® before "435".

Paragraph [0035], line 7, delete "Novozym" and insert Novozym® before "435";

and delete "Lipozyme" and insert Lipozyme® before "RM".

Paragraph [0038], line 8, delete "Novozym" and insert Novozym® before "435"; and delete "Lipozyme" and insert Lipozyme® before "RM".

Please note that the paragraphs above refer to the published application.

IN THE CLAIMS:

Please cancel claim 9.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance:

None of the prior art references teach or suggest taking the by-product glycerine tri-low carbon carboxylic ester, from the first transesterification process, and using as a reactant in a second and different transesterification process to make a low carbon fatty acid ester that is recycled back into the first transesterification for use as the reactant in the continuous process for the production of biodiesel.

Application/Control Number: 10/549,336

Art Unit: 1621

The closest prior art, Mukherjee, K.D. et al., related to the first transesterification reaction, however, it does not teach step 2 of the claimed process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YATE' K. CUTLIFF whose telephone number is (571)272-9067. The examiner can normally be reached on M-TH 8:30 a.m. - 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel M. Sullivan can be reached on (571) 272 - 0779. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Yaté K. Cutliff Patent Examiner Group Art Unit 1621 Technology Center 1600

/Daniel M Sullivan/ Supervisory Patent Examiner, Art Unit 1621